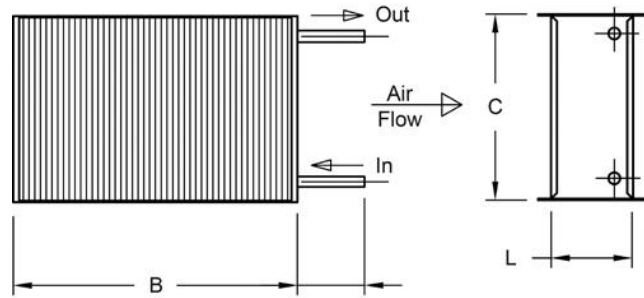


# WATER COIL

ONE AND TWO-ROW HOT WATER REHEAT COIL

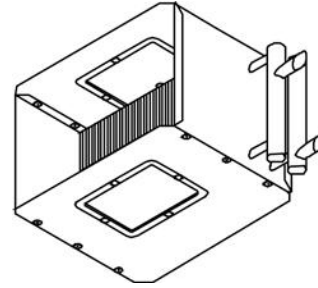
**Stock Notes**

- Used on SPV and SDV terminal units
- With access door top and bottom



VAV Unit Size	B	C	L	Coil Connection
6	12"	8"	9"	7/8" OD
8	12"	10"	9"	7/8" OD
10	14"	12.5"	9"	7/8" OD
12	16"	15"	9"	7/8" OD
14	20"	17.5"	9"	7/8" OD
16	24"	18"	9"	7/8" OD
24" x 16"	38"	18"	9"	7/8" OD

6" and 8" 1-row coils have 1/2" OD coil connection.



## Single Duct Terminal Units - **SPV, SDV Series**

Single Duct – Controller Type

### 1 and 2 Row Hot Water Coil Data – IP Units

Tables are based on high temperature water (180 °F)



**Inlet Size 4, 5, 6 (Standard Coils)**

Rows	Coil gpm	HD Loss	Air Flow Rate, cfm								
			125	150	175	200	225	250	300	350	400
1 Row	0.5	0.15	5.3	5.8	6.2	6.5	6.8	7.1	7.6	8.0	8.4
multi-circuit	1	0.45	5.9	6.6	7.1	7.6	8.0	8.4	9.1	9.7	10.3
	2	1.35	6.4	7.1	7.7	8.3	8.8	9.3	10.2	11	11.6
	3	2.59	6.5	7.3	8.0	8.6	9.2	9.7	10.6	11.5	12.2
	Through the Coil, ΔPs		0.02	0.02	0.03	0.04	0.05	0.06	0.09	0.11	0.14
2 Row	1	0.2	9.8	10.9	11.8	12.7	13.4	14.1	15.3	16.3	17.2
multi-circuit	2	0.65	10.7	12.0	13.3	14.4	15.4	16.3	17.9	19.3	20.6
	4	2.15	11.3	12.8	14.2	15.4	16.6	17.7	19.7	21.4	23.0
	6	4.38	11.5	13.1	14.5	15.8	17.1	18.2	20.4	22.2	23.9
	Through the Coil, ΔPs		0.04	0.05	0.07	0.09	0.11	0.13	0.18	0.24	0.3

**Size 4**

**Size 5**

**Inlet Size 7, 8 (Standard Coils)**

Rows	Coil gpm	HD Loss	Air Flow Rate, cfm								
			200	250	300	350	400	500	600	700	800
1 Row	0.5	0.2	7.4	8.1	8.7	9.2	9.6	10.3	10.9	11.3	11.7
single circuit	1	0.6	8.6	9.6	10.4	11.2	11.8	12.9	13.8	14.5	15.2
	2	1.77	9.3	10.6	11.6	12.5	13.4	14.8	16.0	17.0	17.9
	3	3.37	9.6	10.9	12.1	13.1	14.0	15.6	16.9	18.1	19.1
	Through the Coil, ΔPs		0.02	0.04	0.05	0.07	0.09	0.13	0.18	0.24	0.3
2 Row	1	0.25	14.0	15.7	17.2	18.4	19.4	21.2	22.6	23.7	24.7
multi-circuit	2	0.79	15.8	18.1	20.0	21.7	23.3	25.9	28.0	29.8	31.4
	4	2.56	16.9	19.5	21.9	24.0	25.8	29.1	32.0	34.4	36.5
	6	5.16	17.3	20.1	22.6	24.8	26.9	30.5	33.6	36.3	38.7
	Through the Coil, ΔPs		0.05	0.08	0.11	0.14	0.18	0.27	0.38	0.5	0.63

**Size 7**


**Inlet Size 9, 10 (Standard Coils)**

Rows	Coil gpm	HD Loss	Air Flow Rate, cfm								
			300	400	500	600	700	800	900	1000	1100
1 Row	1	0.19	11.4	12.9	14.1	15.0	15.8	16.5	17.1	17.6	18.1
multi-circuit	2	0.6	13.0	15.0	16.6	18.0	19.2	20.2	21.2	22.0	22.7
	4	2.02	14.0	16.4	18.4	20.1	21.6	22.9	24.1	25.2	26.2
	6	4.15	14.4	17.0	19.1	21.0	22.6	24.1	25.4	26.6	27.7
Through the Coil, ΔPs			0.03	0.04	0.07	0.09	0.12	0.15	0.19	0.23	0.27
2 Row	1	0.32	19.5	22.4	24.6	26.3	27.8	29.0	30.0	30.9	31.7
multi-circuit	2	1.0	22.7	26.7	30.0	32.7	35.1	37.1	38.9	40.5	42.0
	4	3.16	24.7	29.6	33.7	37.3	40.4	43.2	45.7	48.0	50.0
	6	6.27	25.4	30.7	35.2	39.1	42.6	45.7	48.6	51.2	53.5
Through the Coil, ΔPs			0.05	0.09	0.14	0.19	0.25	0.32	0.4	0.48	0.57

**Size 9**
**Inlet Size 12 (Standard Coils)**

Rows	Coil gpm	HD Loss	Air Flow Rate, cfm								
			400	500	600	700	800	1000	1200	1400	1600
1 Row	1	0.23	14.8	16.2	17.4	18.4	19.2	20.6	21.7	22.6	23.4
multi-circuit	2	0.72	17.1	19.1	20.8	22.3	23.6	25.8	27.6	29.1	30.4
	4	2.36	18.7	21.1	23.2	25.1	26.7	29.6	32.0	34.1	35.9
	6	4.77	19.3	21.9	24.2	26.2	28.0	31.2	33.9	36.2	38.3
Through the Coil, ΔPs			0.02	0.04	0.05	0.07	0.09	0.13	0.18	0.24	0.3
2 Row	1	0.41	24.7	27.3	29.4	31.1	32.5	34.8	36.5	37.9	39.1
multi-circuit	2	1.23	29.5	33.4	36.6	39.5	41.9	46	49.4	52.1	54.5
	4	3.83	32.6	37.5	41.7	45.5	48.9	54.7	59.6	63.8	67.4
	6	7.51	33.8	39.1	43.8	48.0	51.7	58.4	64.0	68.9	73.2
Through the Coil, ΔPs			0.05	0.08	0.11	0.14	0.18	0.27	0.38	0.5	0.63

**Inlet Size 14 (Standard Coils)**

Rows	Coil gpm	HD Loss	Air Flow Rate, cfm								
			600	800	1000	1200	1400	1600	1800	2000	2200
1 Row	1	0.29	20.3	22.6	24.4	25.7	26.9	27.8	28.6	29.3	29.9
multi-circuit	2	0.89	24.4	27.9	30.6	32.9	34.9	36.6	38.0	39.3	40.5
	4	2.85	27.1	31.5	35.2	38.3	41.0	43.4	45.5	47.4	49.1
	6	5.68	28.2	33.0	37.1	40.6	43.6	46.3	48.7	50.9	53.0
Through the Coil, ΔPs			0.03	0.04	0.07	0.09	0.12	0.15	0.19	0.23	0.27
2 Row	1.5	0.42	36.8	41.7	45.4	48.3	50.6	52.6	54.3	55.7	56.9
multi-circuit	3	1.35	43.9	51.3	57.3	62.3	66.5	70.1	73.2	76.0	78.5
	6	4.44	48.5	57.9	65.8	72.6	78.5	83.7	88.4	92.6	96.4
	9	9.0	50.3	60.5	69.2	76.8	83.5	89.5	94.9	99.8	104.3
Through the Coil, ΔPs			0.05	0.09	0.14	0.19	0.25	0.32	0.4	0.48	0.57

**Inlet Size 16 (Standard Coils)**

Rows	Coil gpm	HD Loss	Air Flow Rate, cfm										
			800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800
1 Row	1	0.32	24.2	26.1	27.7	28.9	29.9	30.8	31.6	32.2	32.8	33.3	33.8
multi-circuit	2	0.98	29.9	33.0	35.6	37.8	39.6	41.3	42.7	44.0	45.2	46.3	47.2
	4	3.09	33.9	38.0	41.5	44.5	47.2	49.6	51.8	53.7	55.5	57.2	58.7
	6	6.14	35.5	40.1	44.0	47.4	50.5	53.2	55.7	58.0	60.1	62.1	63.9
Through the Coil, ΔPs			0.03	0.05	0.07	0.09	0.11	0.14	0.16	0.19	0.23	0.26	0.3
2 Row	1.5	0.47	44.0	48.0	51.2	53.8	55.9	57.7	59.2	60.6	61.7	62.7	63.7
multi-circuit	3	1.47	54.3	60.9	66.3	71.0	75.0	78.5	81.6	84.3	86.8	89.0	91.1
	6	4.77	61.3	69.9	77.4	84.0	89.8	95.0	99.8	104.0	108.0	111.6	115.0
	9	9.62	64.0	73.6	82.0	89.4	96.1	102.1	107.7	112.7	117.4	121.7	125.8
Through the Coil, ΔPs			0.07	0.1	0.14	0.18	0.23	0.28	0.34	0.41	0.48	0.55	0.63

**Inlet Size 24x16 (Standard Coils)**

Rows	Coil gpm	HD Loss	Air Flow Rate, cfm										
			1200	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
1 Row	1	0.43	32.4	34.5	37.1	38.8	40.2	41.2	42.0	42.7	43.3	43.8	44.2
multi-	2	1.28	42.4	46.4	51.5	55.3	58.4	60.8	62.9	64.6	66.1	67.5	68.6
circuit	4	3.96	49.8	55.6	63.3	69.4	74.4	78.7	82.3	85.5	88.4	90.9	93.2
	6	7.75	52.9	59.4	68.4	75.7	81.8	87	91.5	95.6	99.2	102.4	105.4
	Through the Coil, ΔPs		0.03	0.04	0.07	0.11	0.15	0.2	0.25	0.31	0.37	0.44	0.52
2 Row	1.5	0.61	57.9	62.3	67.3	70.7	73.2	75.1	76.6	77.8	78.8	79.6	80.3
multi-	3	1.88	76.0	84.4	95.0	102.9	109.1	114.1	118.2	121.7	124.6	127.2	129.4
circuit	6	5.93	89.2	101.3	117.7	130.7	141.5	150.5	158.3	165.0	171.0	176.3	181.1
	9	11.76	94.6	108.3	127.5	143.1	156.3	167.6	177.5	186.2	194.0	201.0	207.4
	Through the Coil, ΔPs		0.06	0.09	0.15	0.22	0.31	0.41	0.52	0.65	0.78	0.93	1.09

**Correction Factors – Hot Water Coils**

		Entering Water Temperature, °F										
		120	130	140	150	160	170	180	190	200	210	220
Entering Air Temp °F	50	0.54	0.62	0.71	0.79	0.87	0.96	1.04	1.12	1.21	1.29	1.38
	55	0.50	0.59	0.67	0.75	0.83	0.92	1.00	1.08	1.17	1.25	1.34
	60	0.47	0.55	0.63	0.71	0.79	0.88	0.96	1.04	1.13	1.21	1.30
	65	0.43	0.51	0.59	0.67	0.75	0.84	0.92	1.00	1.09	1.17	1.26

**Performance Notes:**

1. Tabulated values are in MBH (thousands of Btu per hour).
2. Tables are based on a temperature difference of 125 °F (180 °F entering water temperature and 55 °F entering air temperature). For other temperature differences, multiply MBH values by factors as listed above.
3. Minimum air and water flow values are based on ASHRAE recommendations for coil selections. For selections below these tabulated air or water values, please consult your local Price representative.
4. Do not select coils for a leaving air temperature above 120 °F.
5. HD (Head) loss is in feet of water.
6. Ps, is the pressure drop in in. of water across the coil.
7. Air temperature rise = ATR, ATR (°F) = 927 x MBH/cfm.
8. Water temperature drop = WTD, WTD (°F) = 2.04 x MBH/gpm.
9. Values in tables are listed for 0 ft of altitude and no glycol in the system.
10. For information outside the ranges used in the table, consult the current Price software or your Price representative for accurate coil information.
11. Heating coils used in this unit have performance rated and certified in accordance with the current edition of AHRI Standard 410.
12. Connections: Standard Terminal Sizes 4, 5, 6, 7, 8 and high capacity size 9-14 – 1/2 in. OD male solder All others – 3/8 in. OD male solder.